

In re: Michael J. Collins, Jr. et al.  
Serial No. 10/709,060  
Filed: April 9, 2004  
Page 3

**Amendments to the Claims**

Please amend the claims as follows:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)

13. (Canceled)

14. (Original) A method of conducting flow through microwave assisted chemistry comprising:

directing a flow of fluid between a reservoir and a reaction vessel;

exposing a portion of the flowing fluid to microwave radiation to thereby initiate or accelerate chemical reactions in the fluid;

measuring the pressure of the flowing fluid between the reservoir and the reaction vessel; and

conditionally reversing the flow of fluid based upon the measured fluid pressure.

15. (Original) A method according to Claim 14 comprising directing the flow of fluid from the reservoir to the reaction vessel and reversing the flow of fluid when the pressure increases beyond an upper set point pressure.

16. (Original) A method according to Claim 14 comprising directing the flow of fluid from the reservoir to the reaction vessel and reversing the flow of fluid when the pressure decreases below a desired set point pressure.

17. (Original) A method according to Claim 14 comprising directing the flow of fluid from the reaction vessel to the reservoir and reversing the flow of fluid when the pressure increases beyond an upper set point pressure.

18. (Original) A method according to Claim 14 comprising directing the flow of fluid from the reaction vessel to the reservoir and reversing the flow of fluid when the pressure decreases below a desired set point pressure.

19. (Original) A method according to Claim 14 wherein the step of conditionally reversing the flow of fluid comprises signaling a processor based upon the measured pressure and reversing a pump based upon a signal from the processor.

20. (Original) A method according to Claim 14 wherein the step of conditionally reversing the flow of fluid comprises adding additional fluid as the flow is reversed.